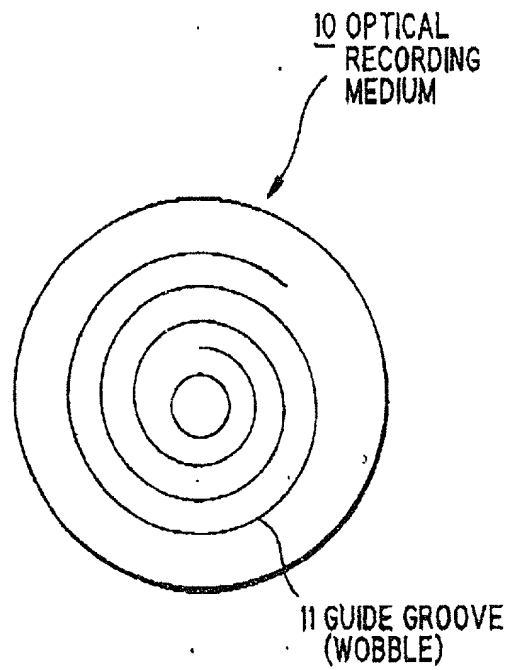


1/10

**FIG. 1**



20020304180001

2/10

FIG. 2(A)

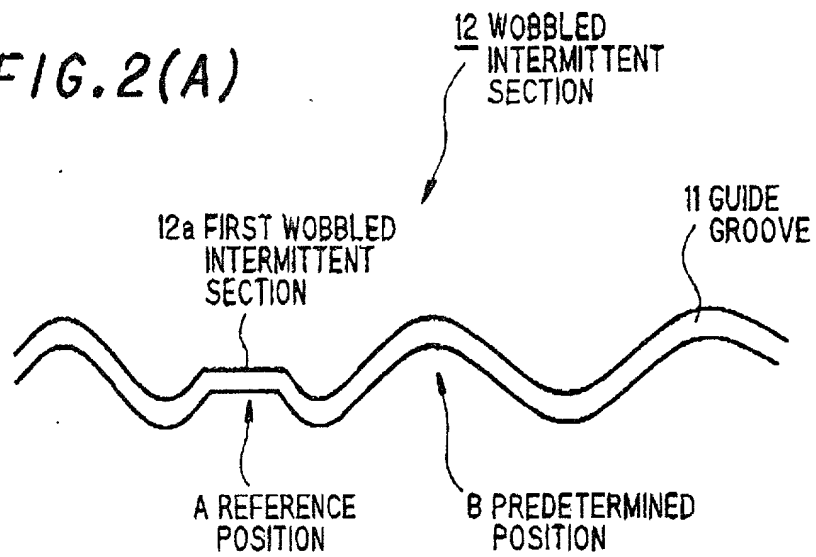
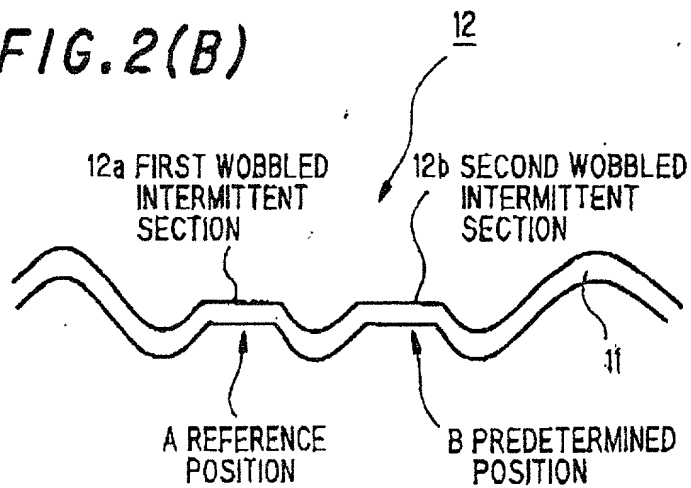
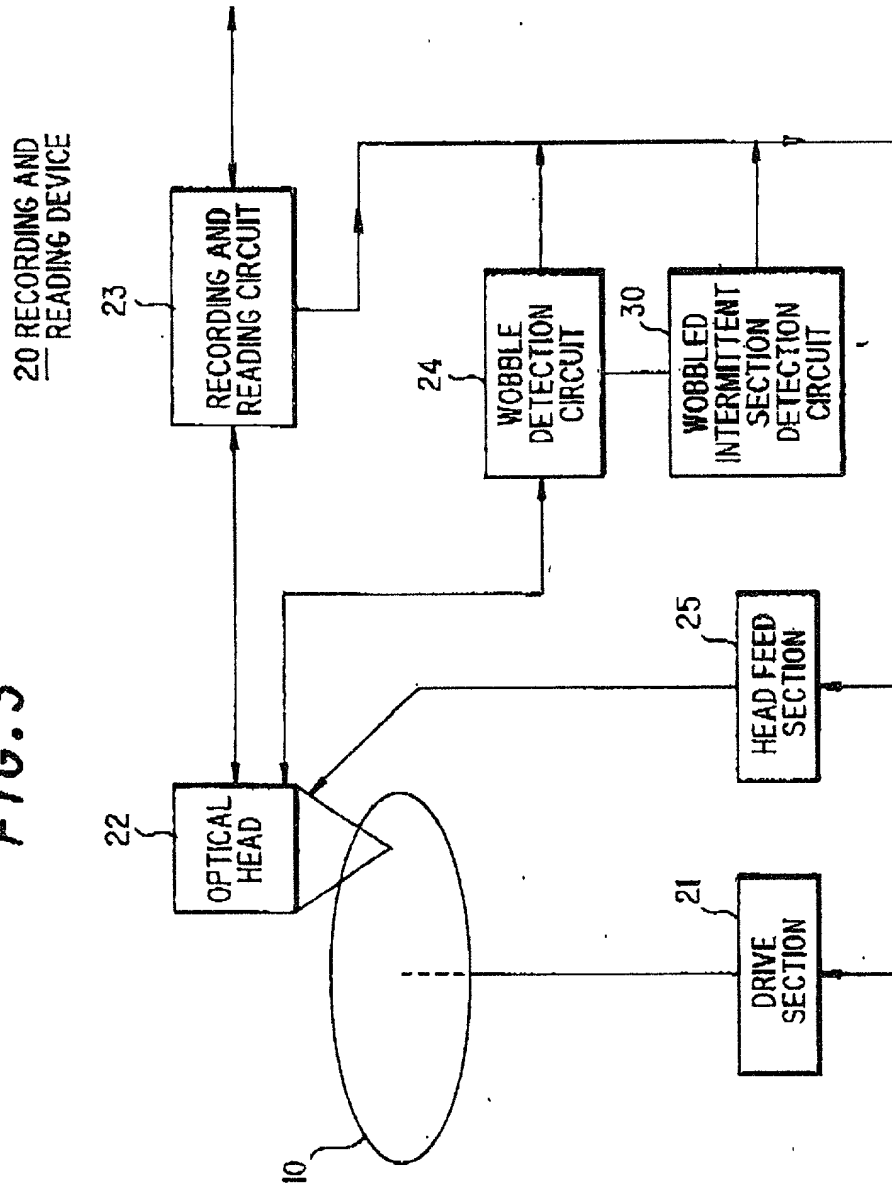


FIG. 2(B)



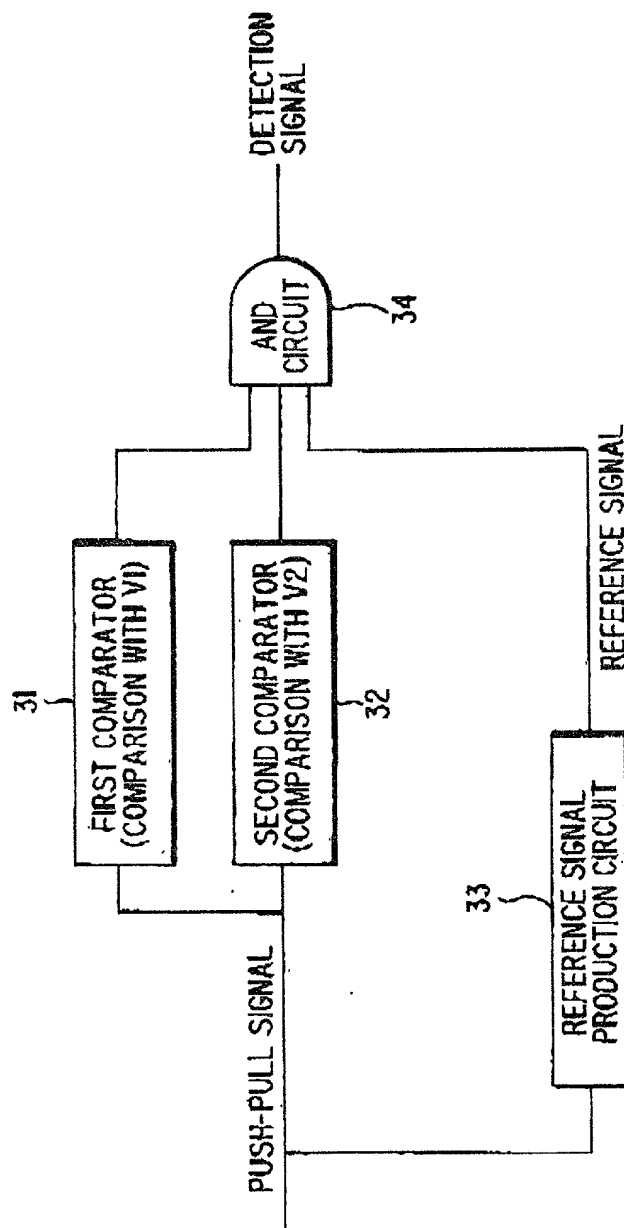
3/10

FIG. 3



4/10

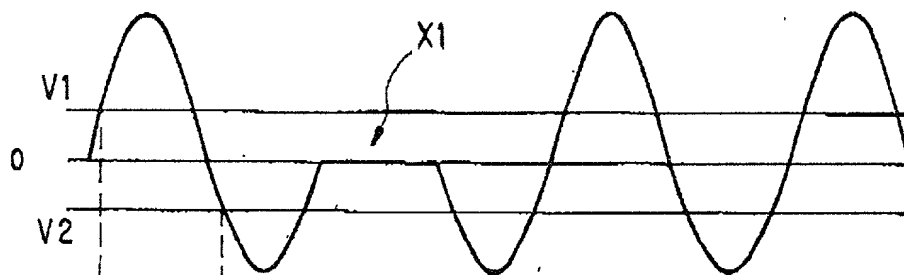
FIG. 4  
30 WOBBLED INTERMITTENT  
DETECTION CIRCUIT



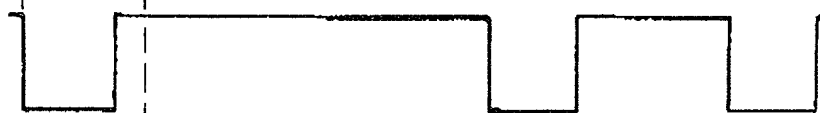
5/10

**FIG. 5**

(A) PUSH-PULL SIGNAL



(B) OUTPUT OF COMPARATOR 31



(C) OUTPUT OF COMPARATOR 32



(D) REFERENCE SIGNAL



(E) DETECTION SIGNAL

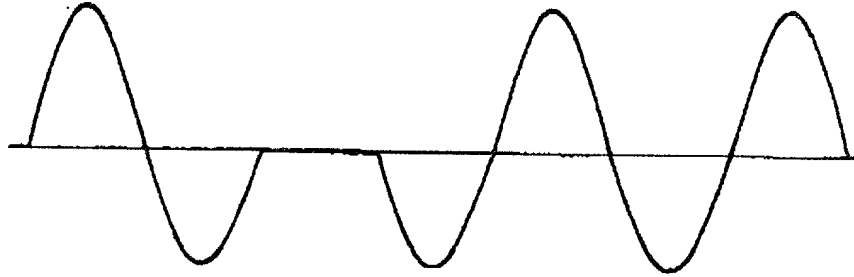


6/10

FIG. 6

(A) LOGIC "0"

PUSH-PULL SIGNAL



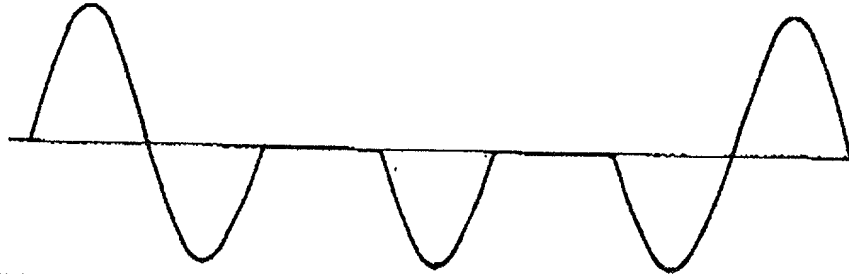
DETECTION SIGNAL

REFERENCE POSITION  
SIGNALPREDETERMINED  
REGION

ONE SET

(B) LOGIC "1"

PUSH-PULL SIGNAL

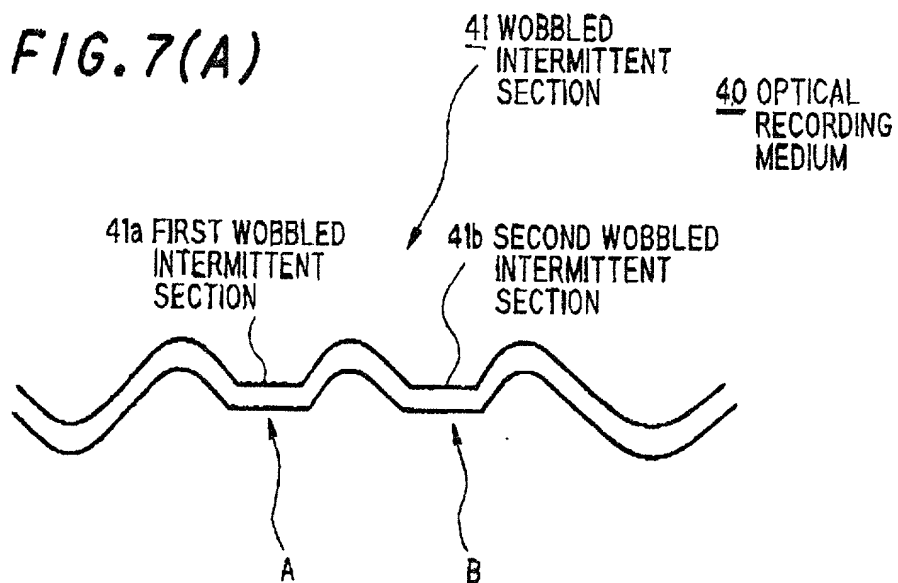
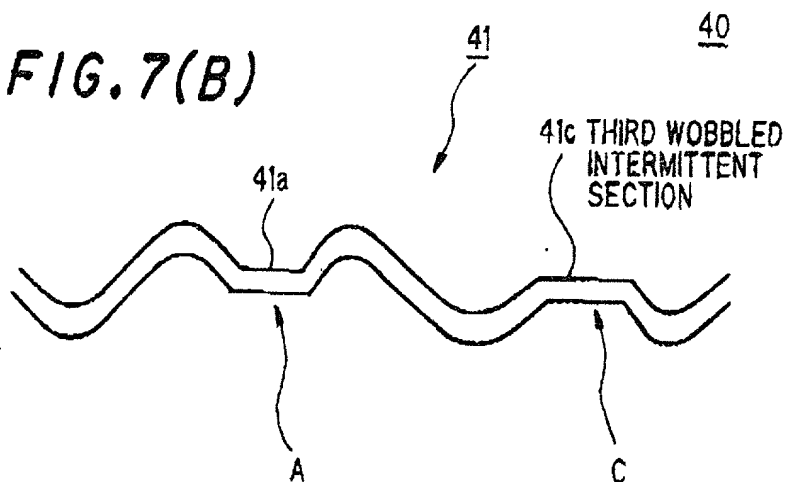


DETECTION SIGNAL

REFERENCE POSITION  
SIGNALPREDETERMINED  
REGION

ONE SET

7/10

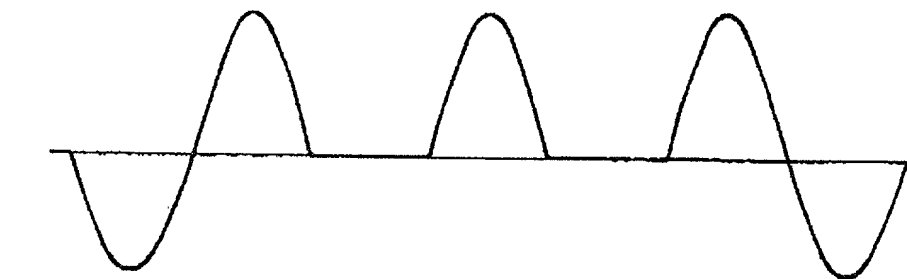
**FIG. 7(A)****FIG. 7(B)**

8/10

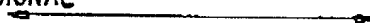
FIG. 8

(A) **LOGIC "0"**

PUSH-PULL SIGNAL



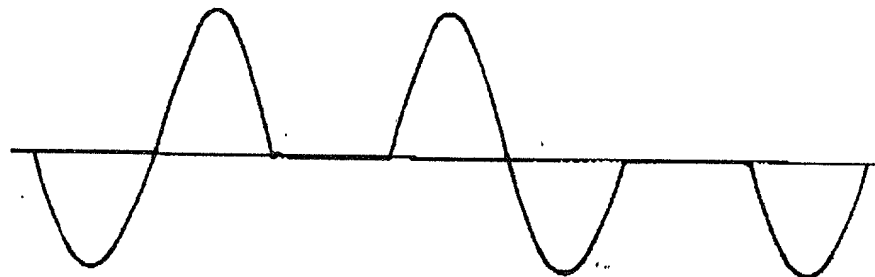
DETECTION SIGNAL

REFERENCE POSITION  
SIGNAL

ONE SET

(B) **LOGIC "1"**

PUSH-PULL SIGNAL



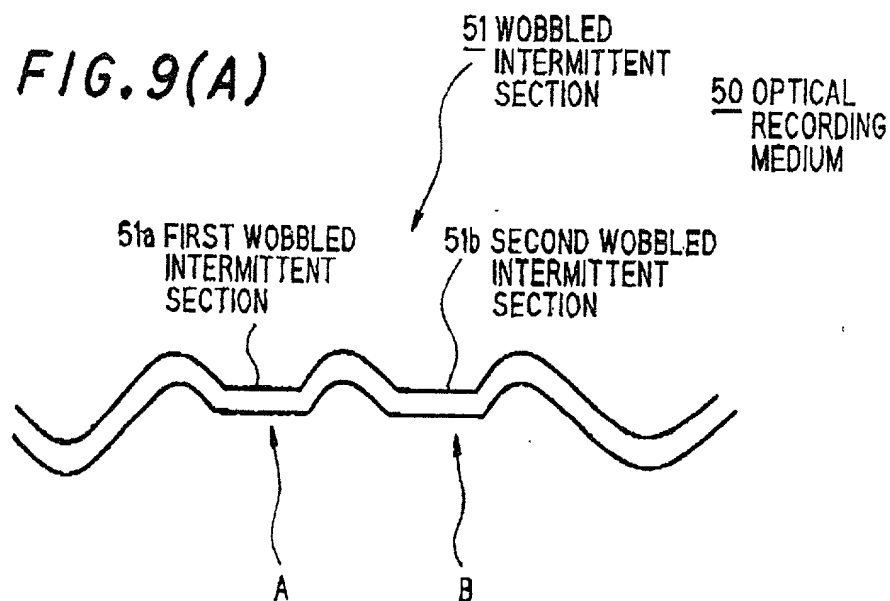
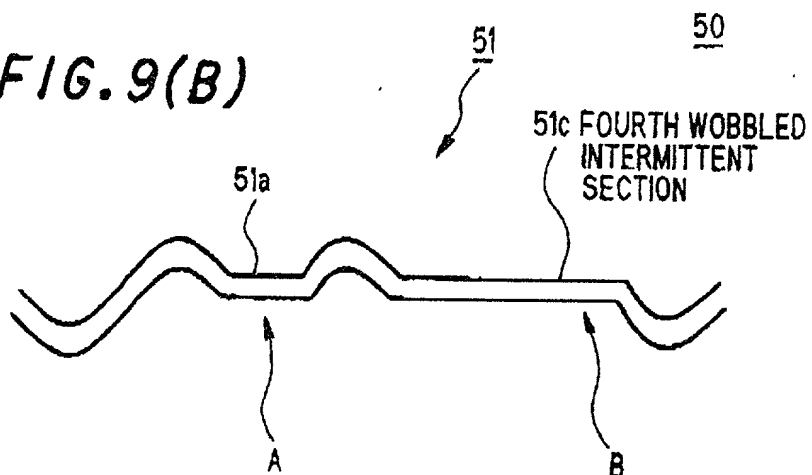
DETECTION SIGNAL

REFERENCE POSITION  
SIGNAL

ONE SET



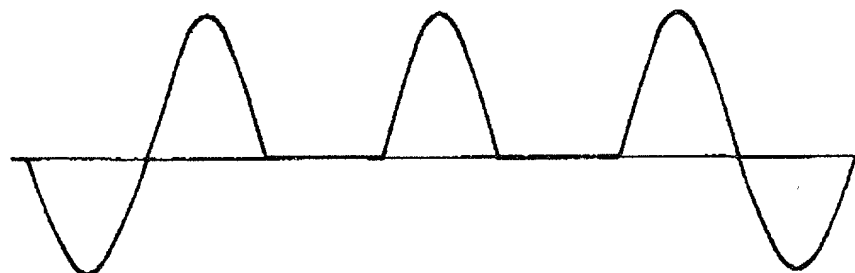
9/10

**FIG. 9(A)****FIG. 9(B)**

10/10

**FIG. 10**(A) **LOGIC "0"**

PUSH-PULL SIGNAL



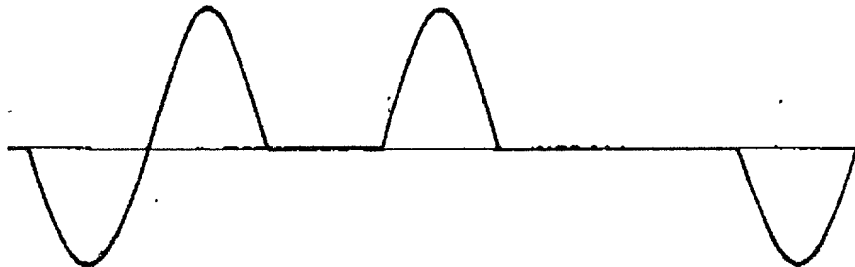
DETECTION SIGNAL

REFERENCE POSITION  
SIGNAL

ONE SET

(B) **LOGIC "1"**

PUSH-PULL SIGNAL



DETECTION SIGNAL

REFERENCE POSITION  
SIGNAL

ONE SET